Redefine performance with cutting-edge infrastructure solutions

Lenovo AMD



Organizations depend on the performance of their IT infrastructure to remain competitive in the marketplace. Utilizing outdated data center technologies, such as servers five years old or more, can result in increased operational and maintenance costs. Their performance lags behind newer servers, often leaving them unable to provide the cutting-edge workloads and capabilities needed to compete effectively in today's business landscape.

#### Lenovo servers, fueled by AMD processors - a tech duo that's redefining possibilities

From the enhanced memory performance of DDR5 to the ultra-fast data transfer speeds of PCIe Gen 5, Lenovo servers powered by AMD processors set new performance boundaries. In fact, Lenovo servers powered by AMD EPYC<sup>™</sup> processors boast an outstanding 120+ benchmarking records.<sup>1</sup> And for a remarkable nine years straight, Lenovo servers have earned recognition as the industry's reliability champion.<sup>2</sup>

Together, Lenovo and AMD are meeting today's increasing IT demands from AI to Virtualization and beyond – through industry-leading performance, reduced costs and improved organizational results.

## High performance: numbers that translate into wins for business

### Consolidate your servers

Lenovo V3 servers with 4th generation AMD EPYC<sup>™</sup> processors offer up to 3:1 server consolidation over older servers, helping to lower costs.<sup>3</sup>

supports

more cores



server consolidation

up to

AMD EPYC processors in ThinkSystem servers can support 100% more cores than prior generation ThinkSystem servers.<sup>4</sup>

### **Better performance** for virtualized applications

Achieve up to 88% better performance for virtualization applications than the previous generation of ThinkSystem servers.<sup>5</sup> up to better virtualization performance



#### Get more memory bandwidth

Up to 98% memory streaming bandwidth improvement with DDR5 over DDR4.6

the data transfer rate

#### Power and speed for AI and ML

**Double** the data transfer rate with PCI Gen 5 for faster AI inferencing and machine learning.7

Competitiveness requires a modern infrastructure that is powerful, reliable, and highly scalable. It must be ready for "what's next", and able to deliver your data and services and support new and emerging applications.

Infrastructure modernization matters.

The longer you delay, the higher the potential costs and performance setbacks.

Are you ready to take the next step?

Learn more

https://www.amd.com/en/processors/epyc-world-records as of October 19, 2023.

<sup>2</sup> https://itic-corp.com/itic-2022-global-server-reliability-results/ and https://itic-corp.com/ibm-z-ibm-power-systems-lenovo-thinksystem-servers-most-secure-toughest-

<sup>3</sup> VMmark 3.1.x results, as of 10/20/23. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.66 @ 42 tiles. See https://www vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2023-06-13-Lenovo-ThinkSystem-SR665V3.pdf for further details. Two HPE servers, each with two AMD EPYC 7702 processors, scored 12.78 @ 14 tiles. See https://www.mware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2019-08-07-HPE-ProLia DL385Gen10.pdf for further details. To find out more about VMmark, visit https://www.vmware.com/products/vmmark.html. VMware\* and VMmark\* are trademarks or registered trademarks of VMware, Inc. VMware VMmark is a product of VMware, Inc. Actual consolidation results will vary based on many factors

<sup>4</sup> https://lenovopress.lenovo.com/lp1608-thinksystem-sr665-v3-server

- <sup>5</sup> VMmark 3.1.1 results, as of 10/18/23. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.66 @ 42 tiles. See https://www. vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2023-06-13-Lenovo-ThinkSystem-SR665V3.pdf for further details. Two previous generation Lenovo ThinkSystem SR665 servers, each with two AMD EPYC 7763 processors, scored 21.58 @ 24 tiles. See https://www.vmware.com/content/dam/digitalmarketing/ vmware/en/pdf/vmmark/2021-05-04-Lenovo-ThinkSystem-SR665.pdf for further details. To find out more about VMmark, visit https://www.vmware.com/products/ vmmark.html. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMware VMmark is a product of VMware, Inc.
- <sup>6</sup> Lenovo servers with AMD processors offer an improvement of up to 98% in memory streaming bandwidth for Lenovo V3 AMD servers using DDR5 over Lenovo first channels of DDR5 @ 4800) to Lenovo ThinkSystem servers with AMD Milan (8 channels of DDR4 @ 3200).

https://www.techtarget.com/searchstorage/definition/PCIe-SSDPCIe-solid-state-drive



# Lenovo AMD

Lenovo and the Lenovo logo are trademarks of Lenovo. AMD, the AMD Arrow logo, EPYC, and combinations thereof are trademarks of Advanced Micro Devices, Inc. All

a tak in the second